

## ABSTRACT

The invention is directed to a method of manufacturing single-walled carbon nanotubes comprising the steps of providing on a substrate at least one pillar comprising alternate layers of a first precursor material comprising fullerene molecules and a second precursor material comprising a catalyst, and heating the at least one pillar in the presence of a first magnetic or electric field. It further is directed to a precursor arrangement for manufacturing single-walled carbon nanotubes comprising on a substrate at least one pillar comprising alternate layers of a first precursor material comprising fullerene molecules and a second precursor material comprising a catalyst. A third aspect is a nanotube arrangement comprising a substrate and thereupon at least one crystal comprising a bundle of single-walled carbon nanotubes with essentially identical orientation and structure.

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